



24 July 2009

INFORMATION PAPER

SUBJECT: Port Allen Harbor Breakwater Repair (O&M), Kauai, Hawaii

1. Purpose: To provide information on the subject project.
2. Points of Major Interest and Facts.

a. Port Allen Harbor Breakwater Repair is in the operations and maintenance phase. The project was authorized by the River and Harbor Act of 30 August 1935 and 2 March 1945. The local sponsor is the State of Hawaii, Department of Transportation, Harbors Division.

b. Port Allen Harbor is located on the southern coast of Kauai. The project consists of a 1,200-foot long rubble mound breakwater on the east side of the bay; an entrance channel 500 feet wide, 35 feet deep; and a harbor basin 1,200 feet wide, 1,500 feet long, and 35 feet deep. The project was completed in 1948. The cost of this project was \$1,837,513 (Federal: \$1,637,513; non-Federal: \$200,000). The U.S. Army Corps of Engineers (USACE) is responsible to maintain authorized Federal project depths in entrance channels, main access channels and turning basin areas. The local sponsor is responsible to maintain depths in berthing areas. The breakwater was last inspected in March 2009 and found to be in fair condition. Port Allen Harbor was last maintenance dredged in April 1999. A total of 20,900 cubic yards of dredged sediment was removed at a cost of \$274,314 in Federal funds. According to the latest waterborne commerce statistics, 4.3 million short tons of cargo was shipped through Port Allen Harbor in 2007.

c. In November 1982, Hurricane Iwa destroyed a portion of the breakwater head section. Based on damage assessments, USACE determined not to rebuild the lost portion but to repair only the head of the shortened breakwater – the present length of the shortened breakwater is 1,126 feet. This repair work was completed in January 1984 at a cost of \$294,900. Following 1989 heavy storms, the breakwater head section repair work was completed in July 1991 at a Federal cost of \$194,000. Later, the breakwater suffered extensive damage from Hurricane Iniki in 1992. The repairs were completed in 1994 at a cost of \$834,000 (Federal funds).

d. Repair of the existing 280-foot long breakwater root section at Port Allen Harbor was required due to wave damage over the years. The repair project was advertised for construction in FY05, however no bids were received and the solicitation was cancelled. USACE re-solicited and awarded a construction contract in FY08 for \$1,824,000.00 to Trade West Construction, Inc. of Nevada. Construction repairs began the week of October 27, 2008, and were completed in February 2009.

e. In accordance with the State DOT Harbors Division's request of 8 June 2004, USACE is seeking a new start project to eliminate damaging waves and surge conditions in the harbor.